

**SUBSTRATES AND SCREENING METHODS
FOR TRANSPORT PROTEINS**

ABSTRACT OF THE DISCLOSURE

A variety of methods for assaying libraries of test compounds as ligands and/or substrates of transport proteins, including both carrier-type and receptor-type transport proteins, are provided. Both *in vitro* and *in vivo* screening methods are disclosed. Also provided are methods for screening DNA libraries to identify members that encode transport proteins. Pharmaceutical compositions including compounds identified via the screening methods are also provided.

DE 7023156 v1

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